



# PLASS**NEST**

## Unique Nest Solution without Slats

23.2.2021

 **PLASSON**<sup>®</sup>

Livestock

Global Presence - Local Commitment

# PLASSNEST Definition

- Developed for Heavy and Light breeders and layers
- Complying with the requirements:
  - "Cage Free"
  - "Free Range"
  - "Organic"



## Farmer perspective:

- Easy installation/operation/maintenance
- Efficiency
- Economic
- Automation
- Bio security
- Results:
  - Maximize number of Eggs per layer
  - lower indexes of floor eggs
  - Greater quantity of fertile eggs
  - Better Hatchability
  - Less cracked eggs

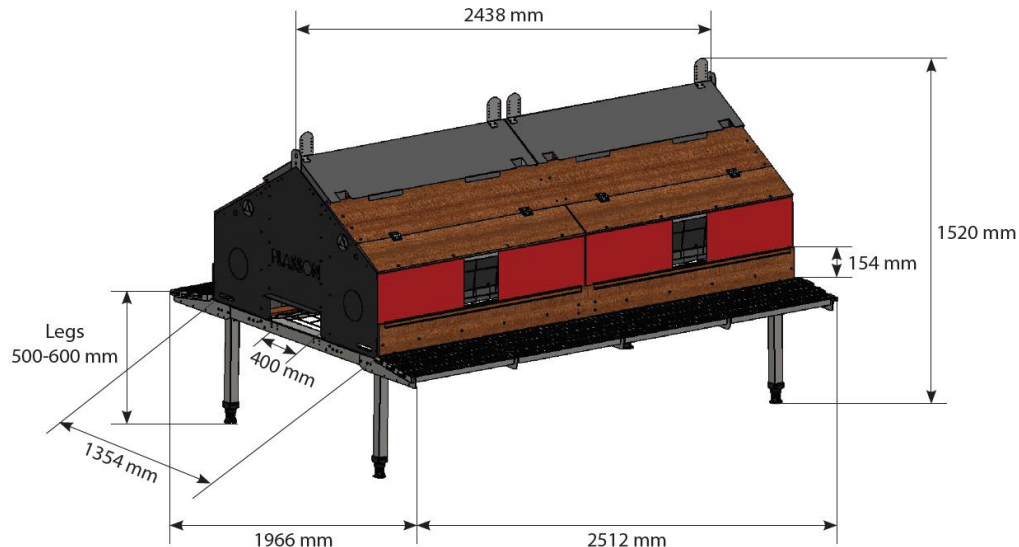
## Chicken perspective:

- Express normal behaviour
- Cooler temp inside the nest
- Body heat regulation
- Easy access to food & water
- Expanded mating area – higher Fertility



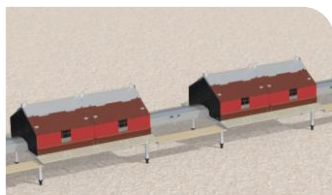
**Dimensions:**

- Single Nest: 244cm
- Double Nest: 488cm
- Passages: 120 / 150 / 180 / 210 / 240cm
- Legs Height: 50 - 60cm - Adjustable
- Egg Belt Width: 40cm
- Jumping Benches Width: 30 / 40cm

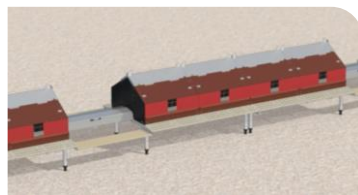


# PLASSONEST System Description

- **Nest without Slats:**
- Strong and durable materials
- Solid and stable system
- Easy and fast assembly



Single Nest



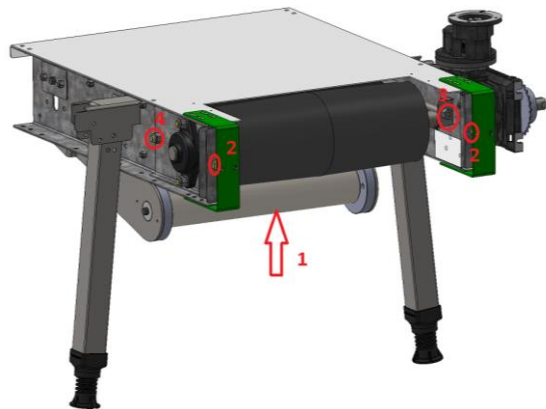
Double Nest



# PLASSNEST System Description

## Egg collecting table/ Front drive unit:

- Place where the egg collection is carried out and the traction of the conveyor belt

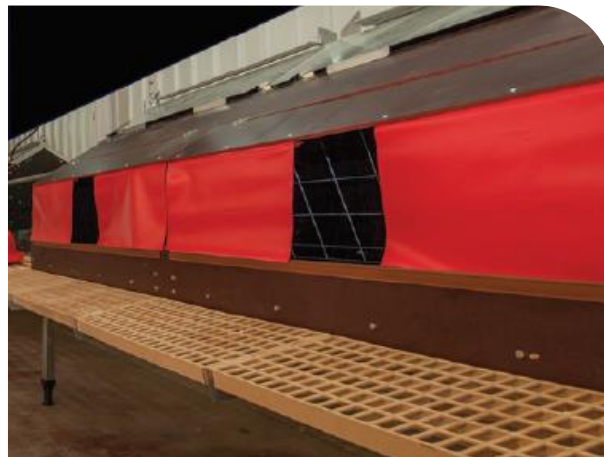
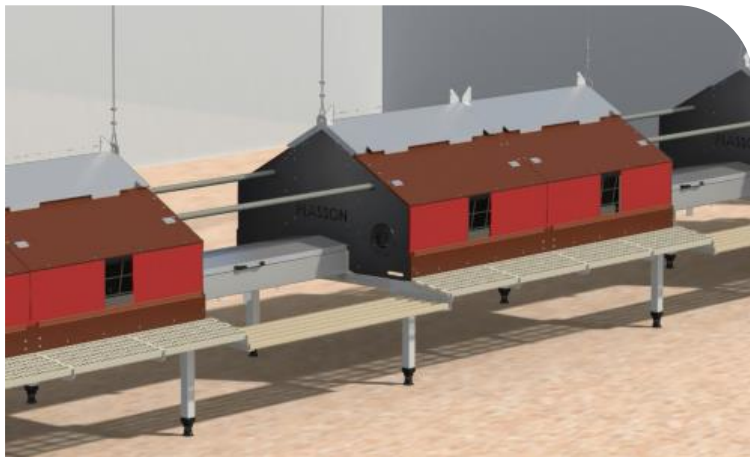






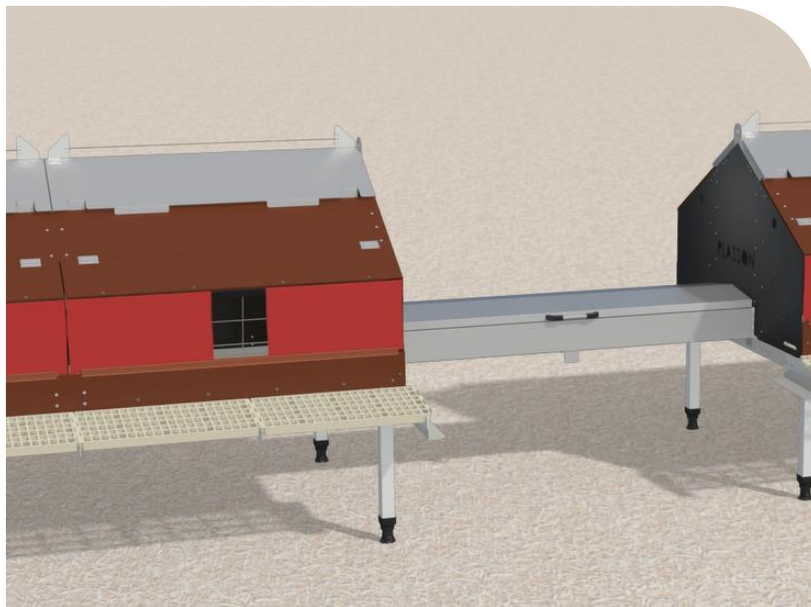
## Jumping bench:

- Place for the birds to enter the nest, waiting area and perching.



## Passage module:

- Module that connects the nests and allows passage of birds and people between the nests.

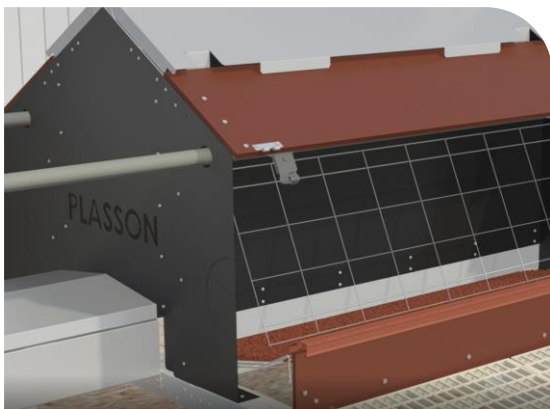




# PLASSNEST System Description

## Expulsion module:

- Responsible for opening and closing the grids restricting the access of layers and breeders to the interior of the nest (nighttime).



### Opening the nest:

- Press the **P1** key and the first image on the right appears in the display.

**Notes:** The images on the side are following the sequence of the programmation.

- Set the opening start time using the **⌂** **⌂** keys (example 06:00);
- Press the **P1** key to confirm;
- Check the display next to;
- Set the opening end time with the **⌂** **⌂** keys (example 06:03).

**Note:** The ejection motor needs a time to open completely, for this reason it is necessary to leave 3 to 5 minutes between start and end of the opening.

- Press the **P1** key to confirm.



# PLASSNEST System Description

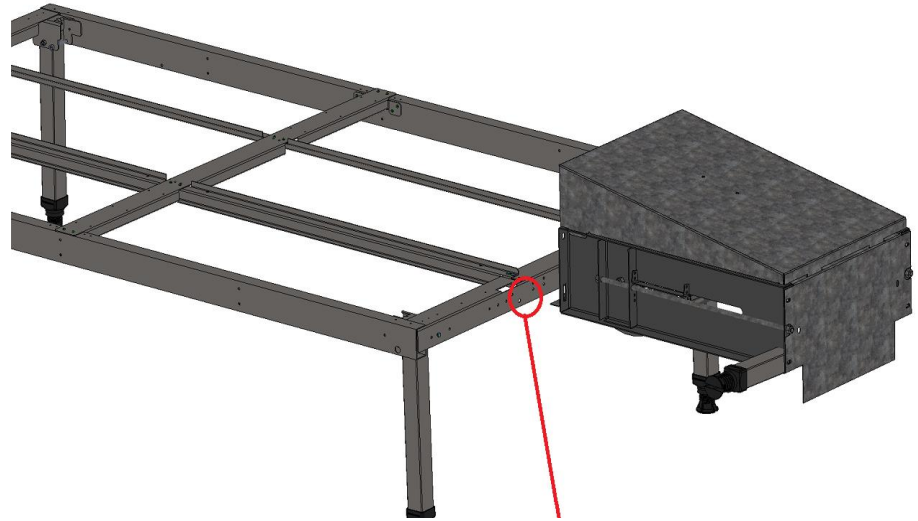
## Separate Roof parts:

- Allowing better ventilation inside the nest, by using the 'Chimney effect' to release the hot air.



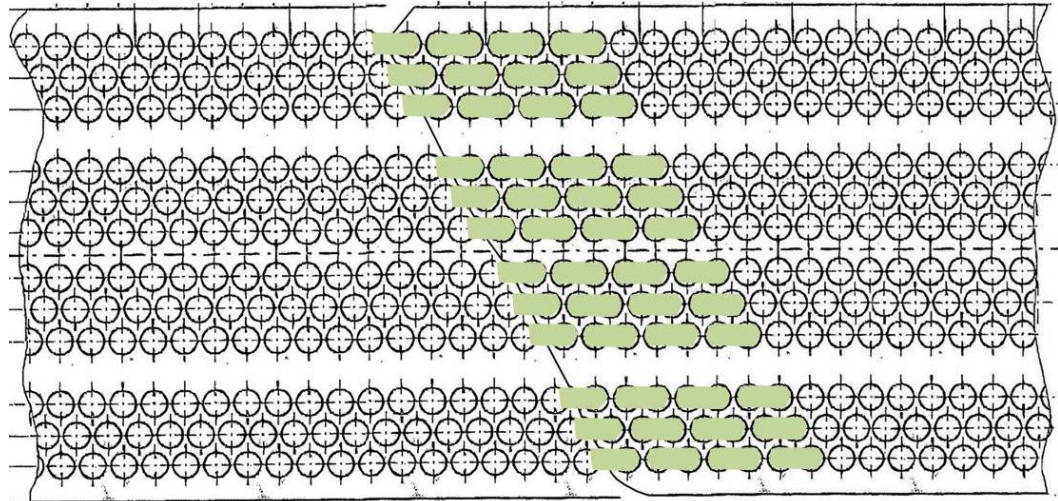
## End line module:

- Responsible for assisting in tensioning the conveyor belt and making it return.



## Conveyor belt:

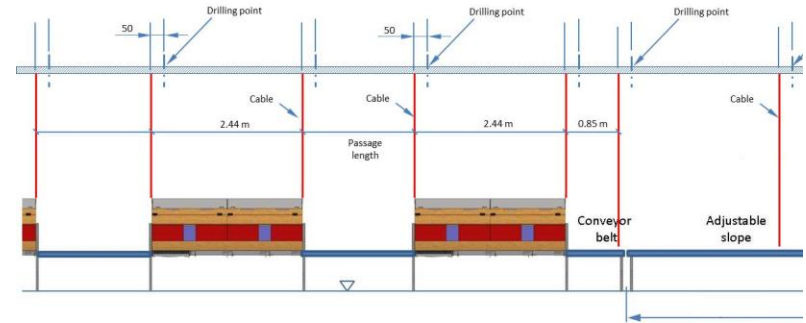
- Responsible for transporting the eggs throughout the nest to the collection table.



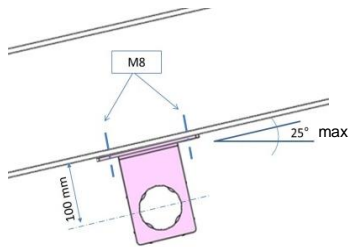
# PLASSNEST System Description

## Suspension system:

- Allows lowering the nest sys to ground level for rearing and lift it to the ceiling for cleaning at the end of grow cycle.



## Bearings



## Gear-Motor-



## More floor space:

- More birds per house
- Expanded mating area – higher Fertility
- Accessibility to all areas
- Cleaning and operation
- No manure treatment required





## Advantages

### No long Slats:

- Dry litter due to better ventilation
- Lower % of “lost eggs” through the slats
- Improved Bio-security – No droppings accumulation under slats

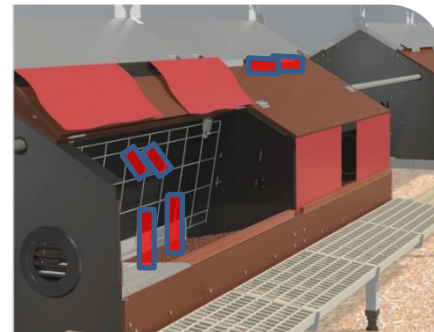
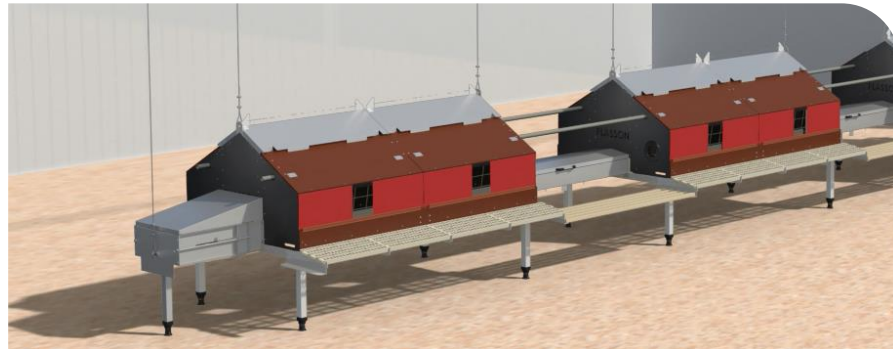




## Advantages

### Spacing between nests:

- The house is not divided – Free movement
- Saving one male feed line
- Cooler temp inside the nest - Vent shutters
- Good ventilation across & along the house
- Less ammonia and better air quality Increases fertility & hatchability



## Spacing between nests:

- Flexibility in nests layout
  - Number of Nests per row
  - Number of rows
  - Nest length
  - Customized spacing between nests



# PLASSNEST Advantages

## Suspension Feature :

- Nests are suspended
- Option lowering to the floor for training period
- 2 Methods:
  - PlassNest on The Floor
  - PlassNest on Legs
- At the end of each cycle, the farmer raises the nests for easy cleaning and maintenance.



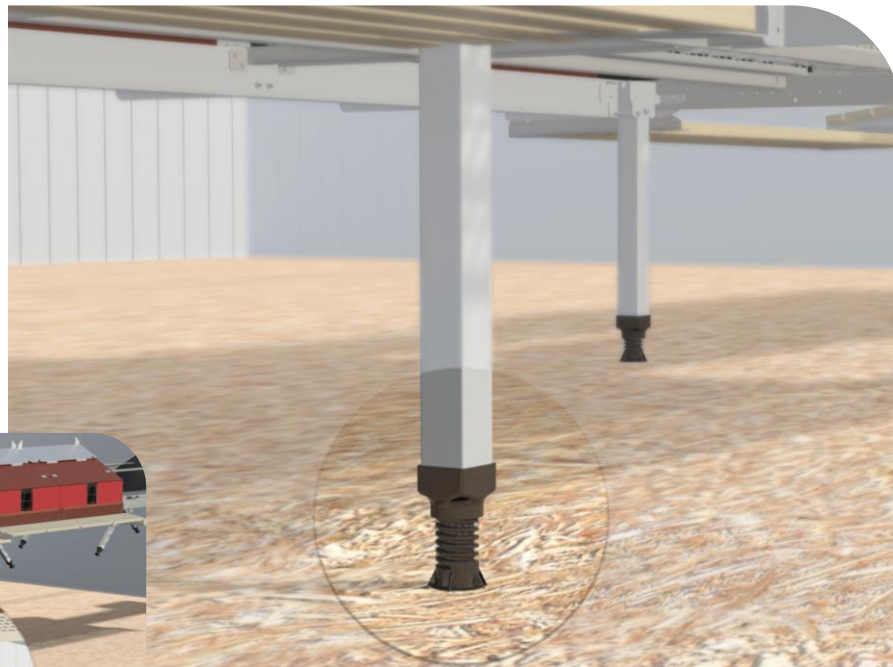
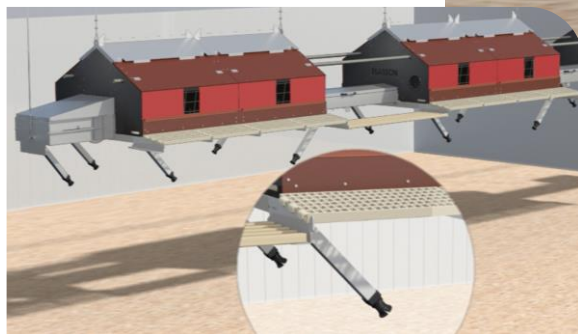
**Nest on Legs**

**Nest on Floor**

# PLASSNEST Advantages

## Nest legs :

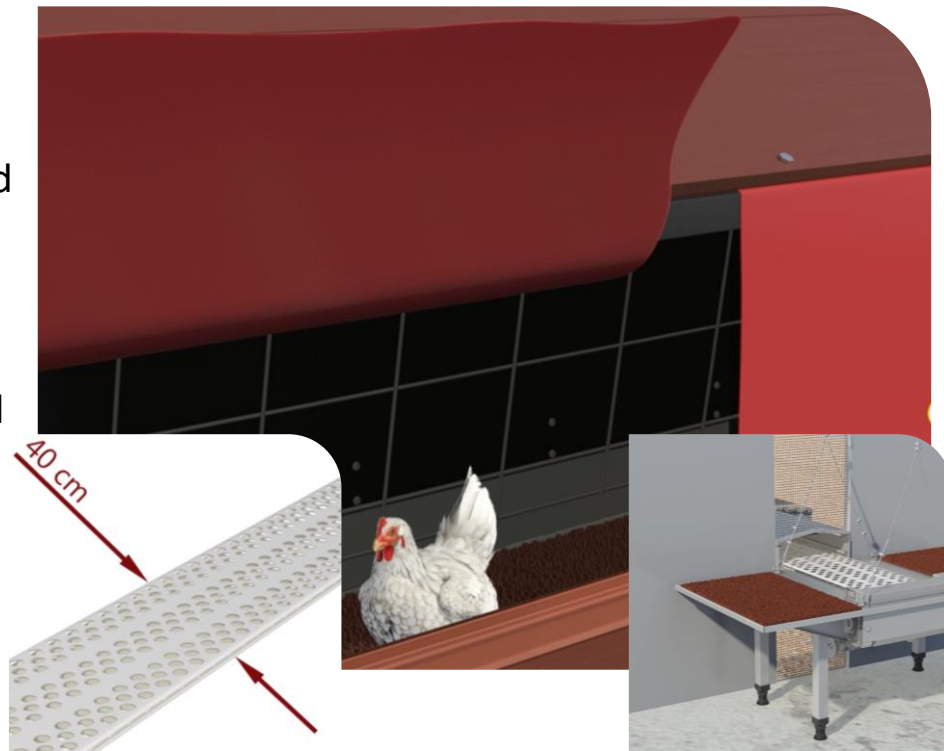
- Variable heights for different genetics
- Height adjustment to bird age
- Adjustable leg for leveled system
- Plastic legs – corrosion resistant
- Foldable legs



# PLASSNEST Advantages

## Interface and Features:

- Wide egg belt to prevent egg cracking
- Walls of the nest are painted black for dark and intimate environment inside
- Auto Expulsion system
- Egg collection table or conveyer for centralized collection

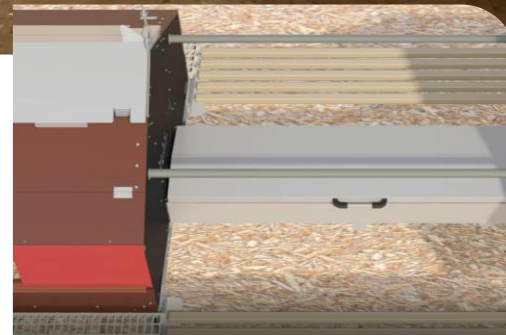
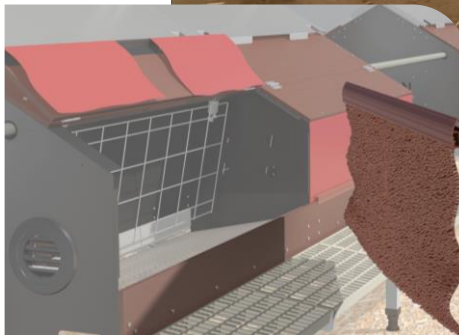
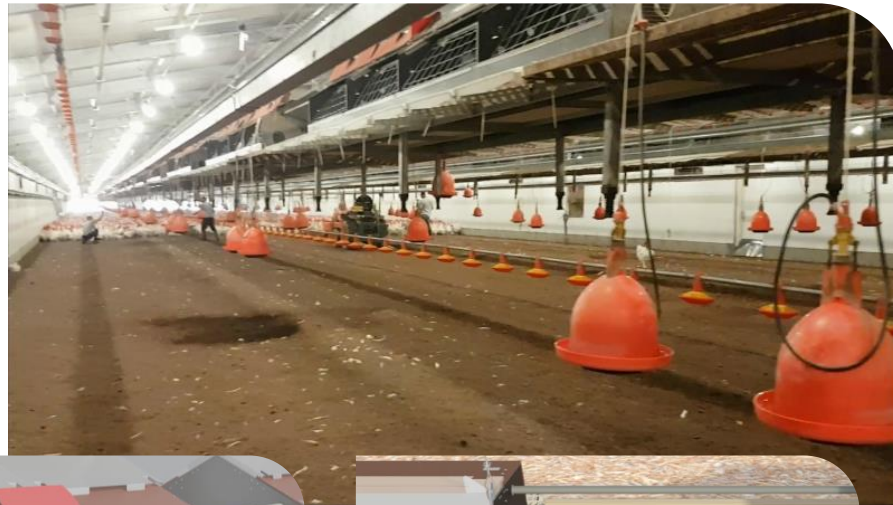




# PLASSNEST Advantages

## Maintenance and Cleaning:

- The nest roof can be opened for easy cleaning.
- removable floor mat
- protected and accessible egg belt
- Complementary drinking tools can be added on passages

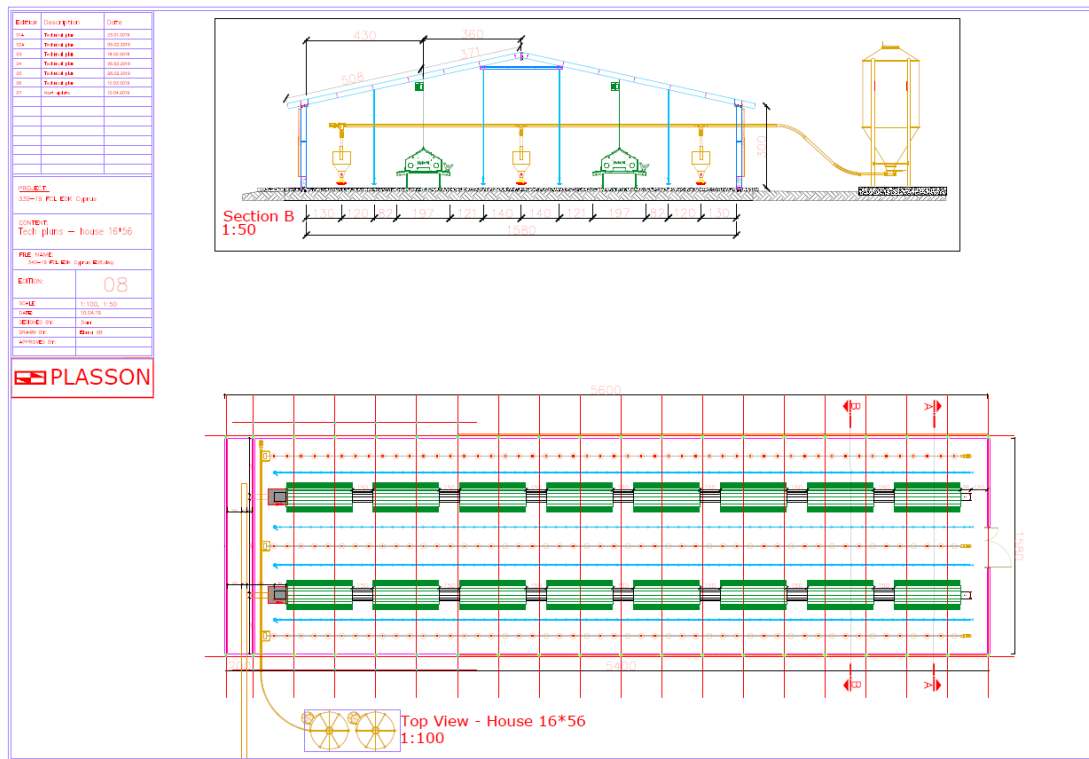




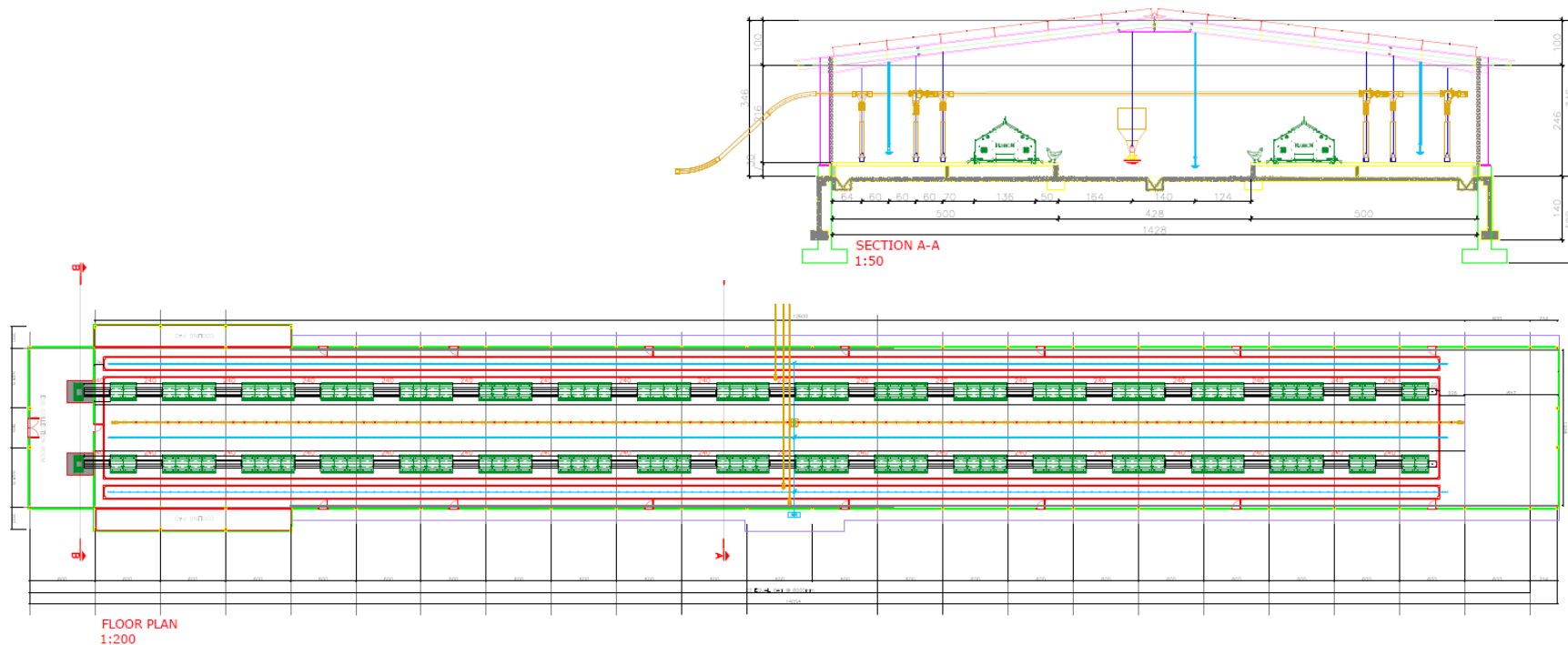




# PLASSNEST Layouts



# PLASSNEST Layouts



# PLASSNEST Photos from projects Worldwide



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## Summary clip

<https://www.youtube.com/watch?v=Icl76z-B8n8>

# Thank You



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